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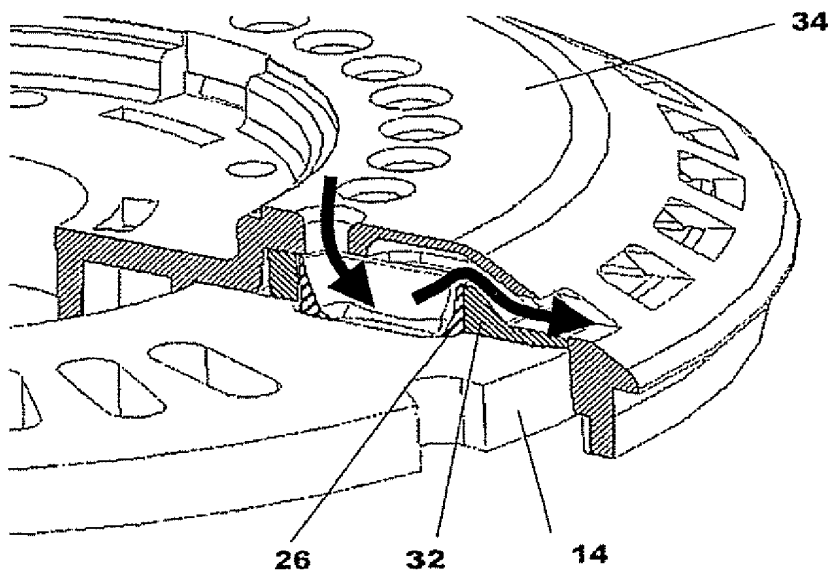
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[Continued on next page]

(54) Title: DISPENSING DEVICE



(57) Abstract: A device for dispensing individual doses of powder from respective pockets of a disc-shaped carrier by outwardly rupturing a lidding foil by means of pressure on an opposite side surface, the device providing individual respective deaggregation flow paths for each pocket, split airstreams allowing improved entrainment of powder, a cam mechanism for outwardly rupturing the pockets, an indexing mechanism linked to the cam mechanism and a dose counter.

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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International Application No  
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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61M15/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

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X	EP 1 106 196 A (ATSUGI UNISIA CORP ; DOTT LTD COMPANY (JP)) 13 June 2001 (2001-06-13)	1,2
Y	column 24, line 27 - line 50; figures 1,32	3,4,8
Y	WO 02/094357 A (ASKING LARS ; ASTRAZENECA AB (SE); HARWIGSSON IAN (SE); JONSTROEMER MI) 28 November 2002 (2002-11-28) page 14, line 19 - line 24; figures 17-20	3,4,8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*Z\* document member of the same patent family

Date of the actual completion of the International search

14 January 2005

Date of mailing of the International search report

28. 01. 2005

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A	US 4 811 731 A (RAND PAUL K ET AL) 14 March 1989 (1989-03-14) cited in the application abstract; figures	1-8
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X	WO 01/17595 A (INNOVATA BIOMED LTD ; BRAITHWAITE PHILIP (GB)) 15 March 2001 (2001-03-15) page 4, lines 4,5 page 4, line 25 - line 31 page 8, lines 1-5; figures	12-21, 39,40,42
A	DE 33 48 370 C (GLAXO GROUP LTD) 11 October 2001 (2001-10-11) abstract; figures	41,43-47
A	US 5 301 666 A (LERK COENRAAD ET AL) 12 April 1994 (1994-04-12) abstract; figure 12	12-21
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X	WO 03/015857 A (JENNINGS DOUGLAS IVAN ; EDE ANDREW JOHN (GB); MERIDICA LTD (GB)) 27 February 2003 (2003-02-27) page 16, line 1 - line 25; figure 17	22,31
A	EP 0 469 814 A (LILLY INDUSTRIES LTD) 5 February 1992 (1992-02-05) column 3, line 9 - line 21; figure 1	23-30,32
X	WO 96/33759 A (DURA PHARMA INC) 31 October 1996 (1996-10-31) abstract; figures	22
X	WO 03/024514 A (ADVENT PHARMACEUTICALS PTY LTD ; ALLAN ROBERT DAVID (AU); PIKE GREGORY) 27 March 2003 (2003-03-27) page 5, line 14 - page 7, line 2; figures 1,4,6	22
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X	WO 95/11715 A (TENAX CORP) 4 May 1995 (1995-05-04) page 23, line 23 - page 24, line 8; figures 7B,9,11A-C	34-38
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6 182 655 B1 (EGGIMANN THOMAS ET AL) 6 February 2001 (2001-02-06) column 13, line 1 - line 58 column 18, line 66 - column 19, line 4; figure 16	48,49, 52,53 50,51
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## INTERNATIONAL SEARCH REPORT

national application No.  
PCT/GB2004/002748

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International Application No. PCT/ GB2004/ 002748

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8

A device for dispensing individual doses of powder from respective pockets of a carrier with a flow path downstream of each defined by walls unique for said pocket.

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2. claims: 9-11

A device for dispensing individual doses of powder from respective pockets of a carrier with a first flow path communicating with the pocket and a second flow path bypassing said pocket.

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3. claims: 12-21

A device for dispensing individual doses of powder from respective pockets of a pair of carriers.

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4. claims: 22-32

A device for dispensing individual doses of powder from respective pockets of a carrier with a prodger/cam arrangement for rupturing the lidding sheet sealing the pockets.

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5. claims: 33-38

A device for dispensing individual doses of powder from respective pockets of a carrier with priming member and intermittent-motion for interaction with the priming member.

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6. claims: 39-47

A device for dispensing individual doses of powder from respective pockets of a carrier with a changeover component and an indexing mechanism.

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7. claims: 48-53

A device for dispensing individual doses of powder from respective pockets of a carrier with a counting mechanism for counting the number of doses dispensed to the user.

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